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Mills**

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(54) **INFANT STROLLER AND SWING
COMBINATION**

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B62B 7/06 (2006.01)
B62B 7/04 (2006.01)

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B62B 9/22 (2013.01)

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CPC B62B 7/14; B62B 7/142; B62B 7/147
USPC 280/47.41, 47.38; 297/260, 274
See application file for complete search history.

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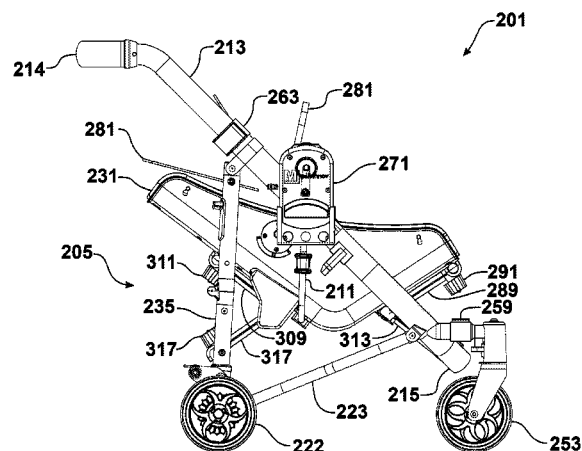
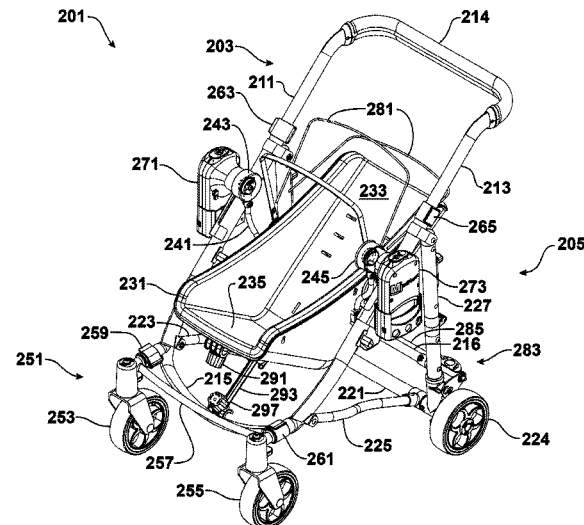
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(57) **ABSTRACT**

A stroller (201) is provided which includes a chassis (203, 205) having first (211) and second (213) opposing frame elements. The chassis is supported on a plurality of wheels (223, 224, 225, 226). A seat (231) is suspended from the chassis by way of a support element (241). The seat includes upper (233) and lower (235) portions and is adapted to accommodate a child such that the back of the child rests against the upper portion and such that the legs of the child rest against the lower portion. The support element has first and second ends which are rotatably attached to first (243) and second (245) pivots mounted, respectively, on the first and second frame elements. The first pivot rotates about a first axis, and the seat is disposed between the first axis and the plurality of wheels. A first motor (271) is provided which rotates the first pivot.

20 Claims, 16 Drawing Sheets



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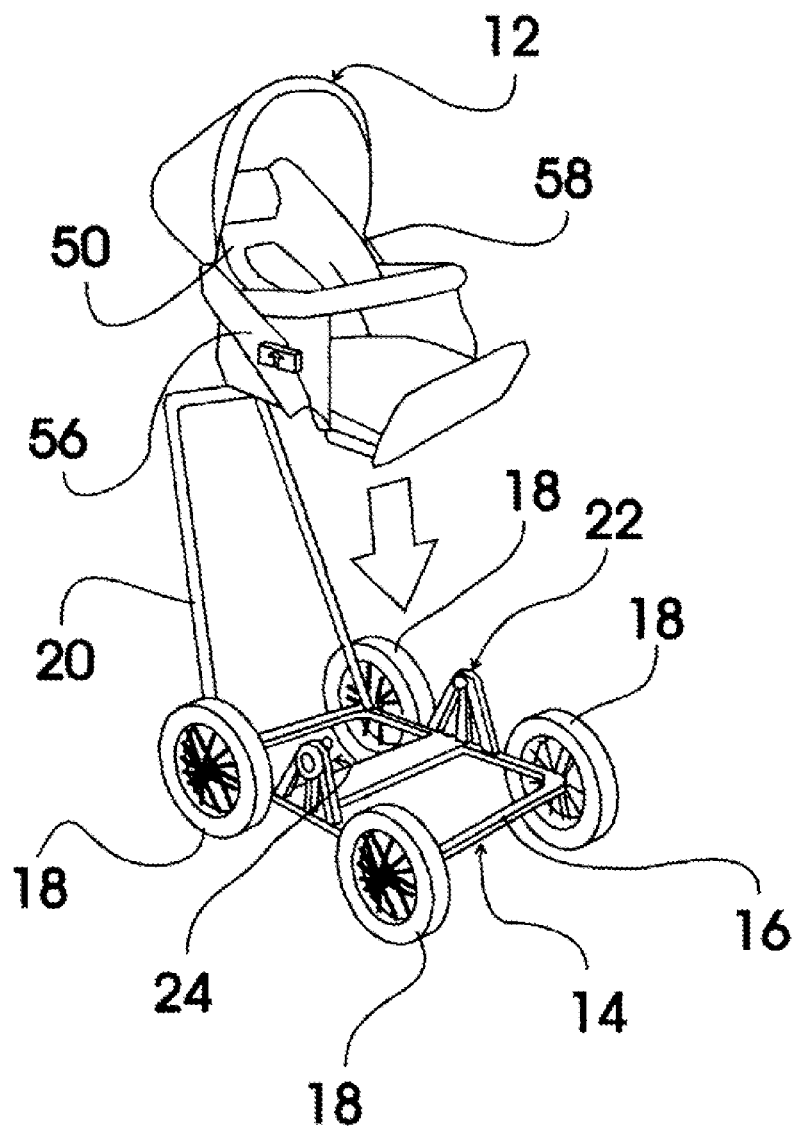
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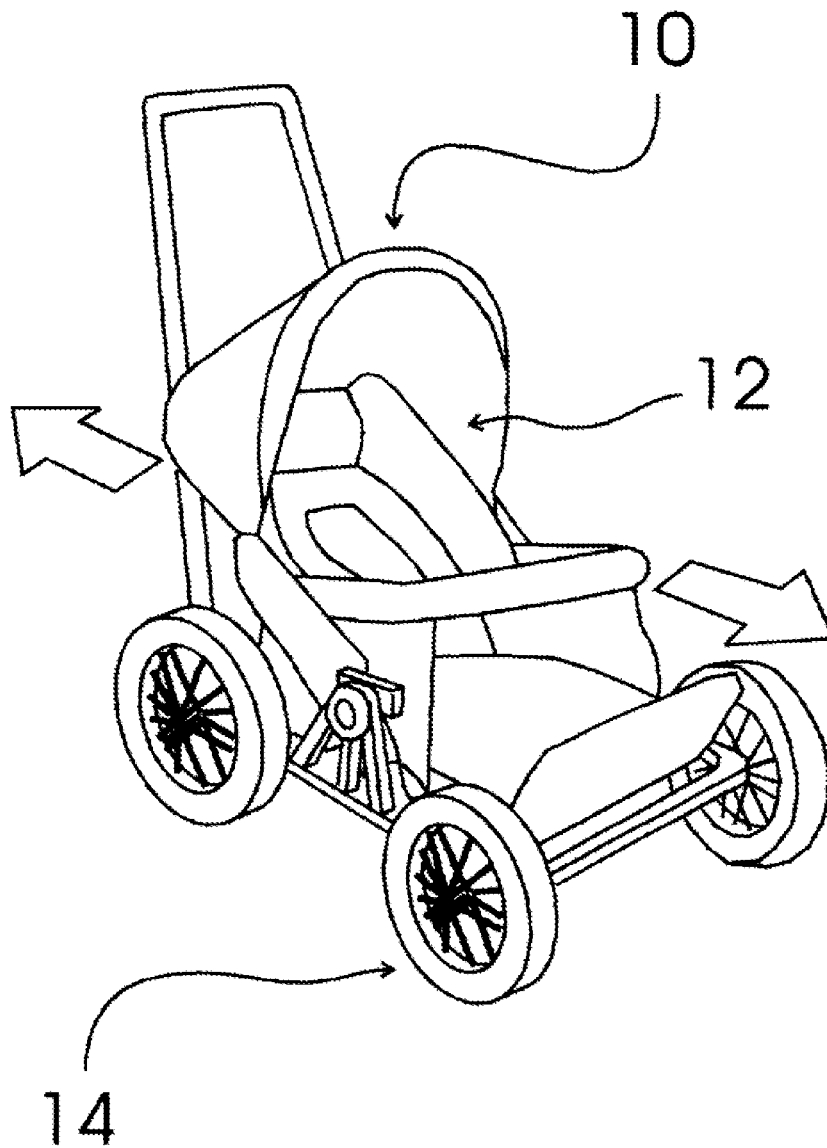
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- Prior Art -

FIG. 1



- Prior Art -

FIG. 2

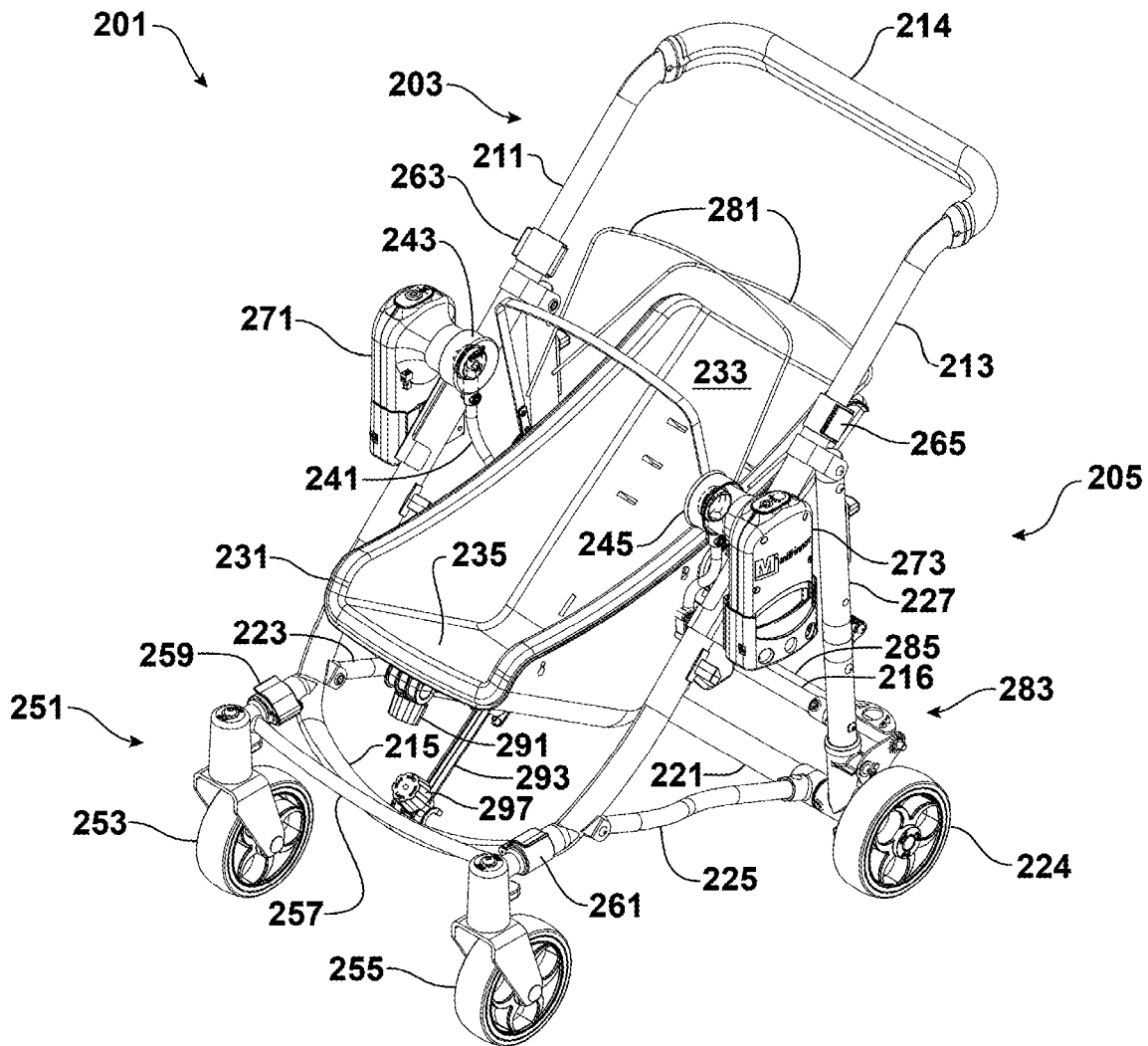


FIG. 3

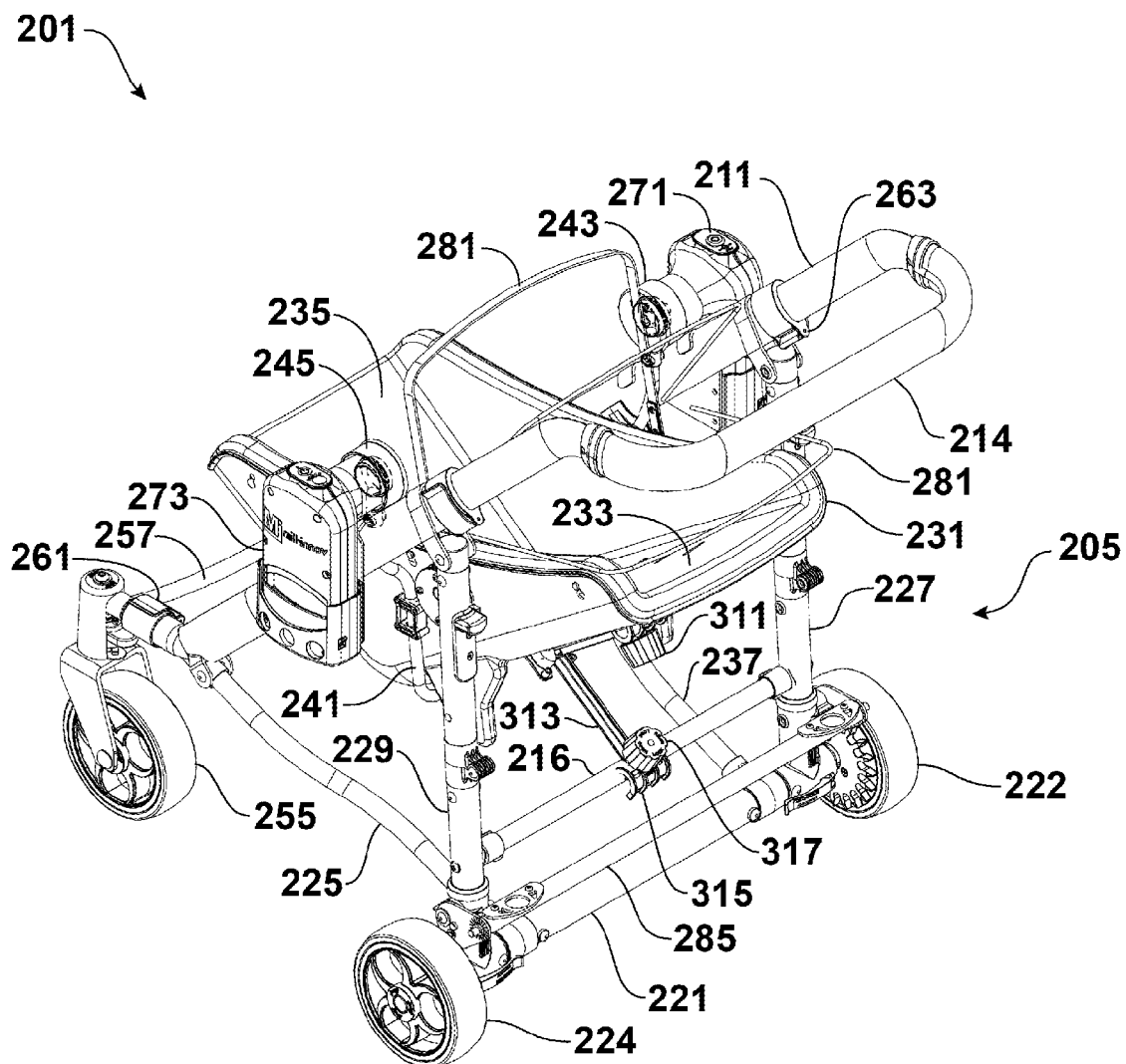


FIG. 4

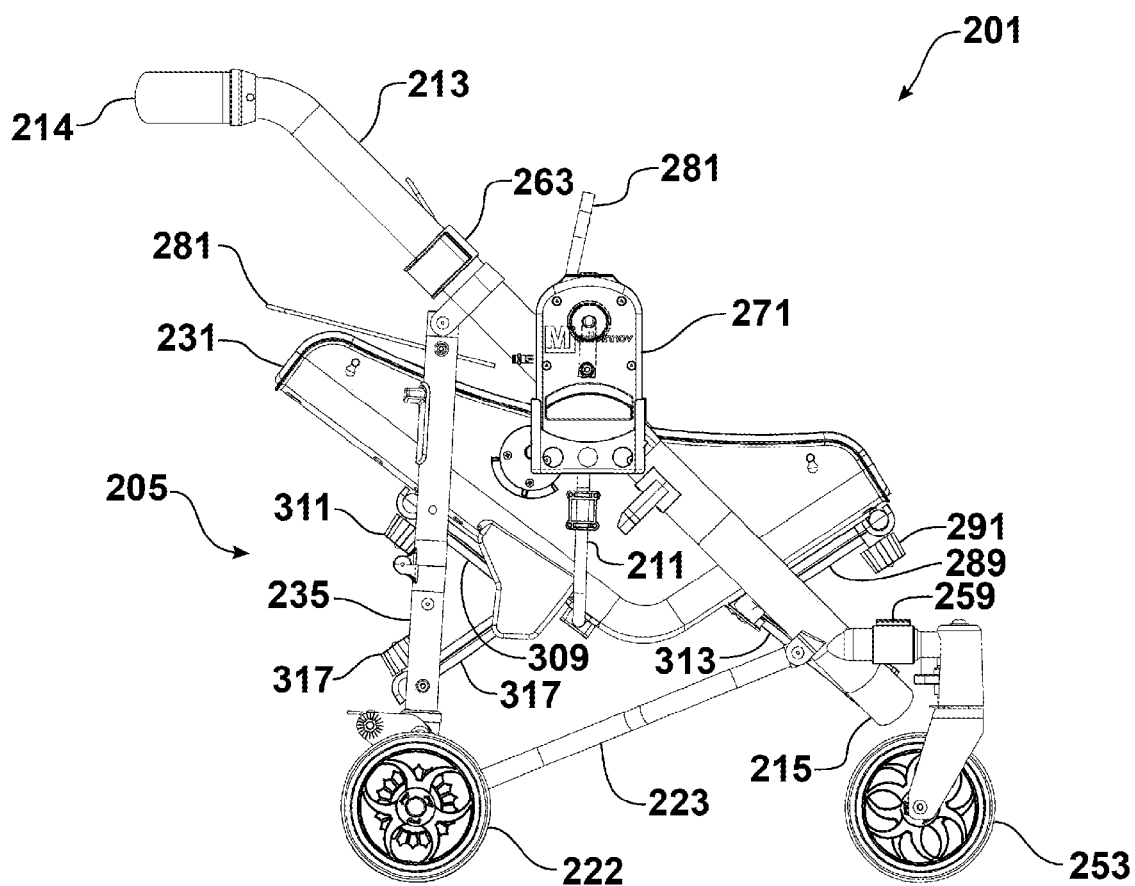


FIG. 5

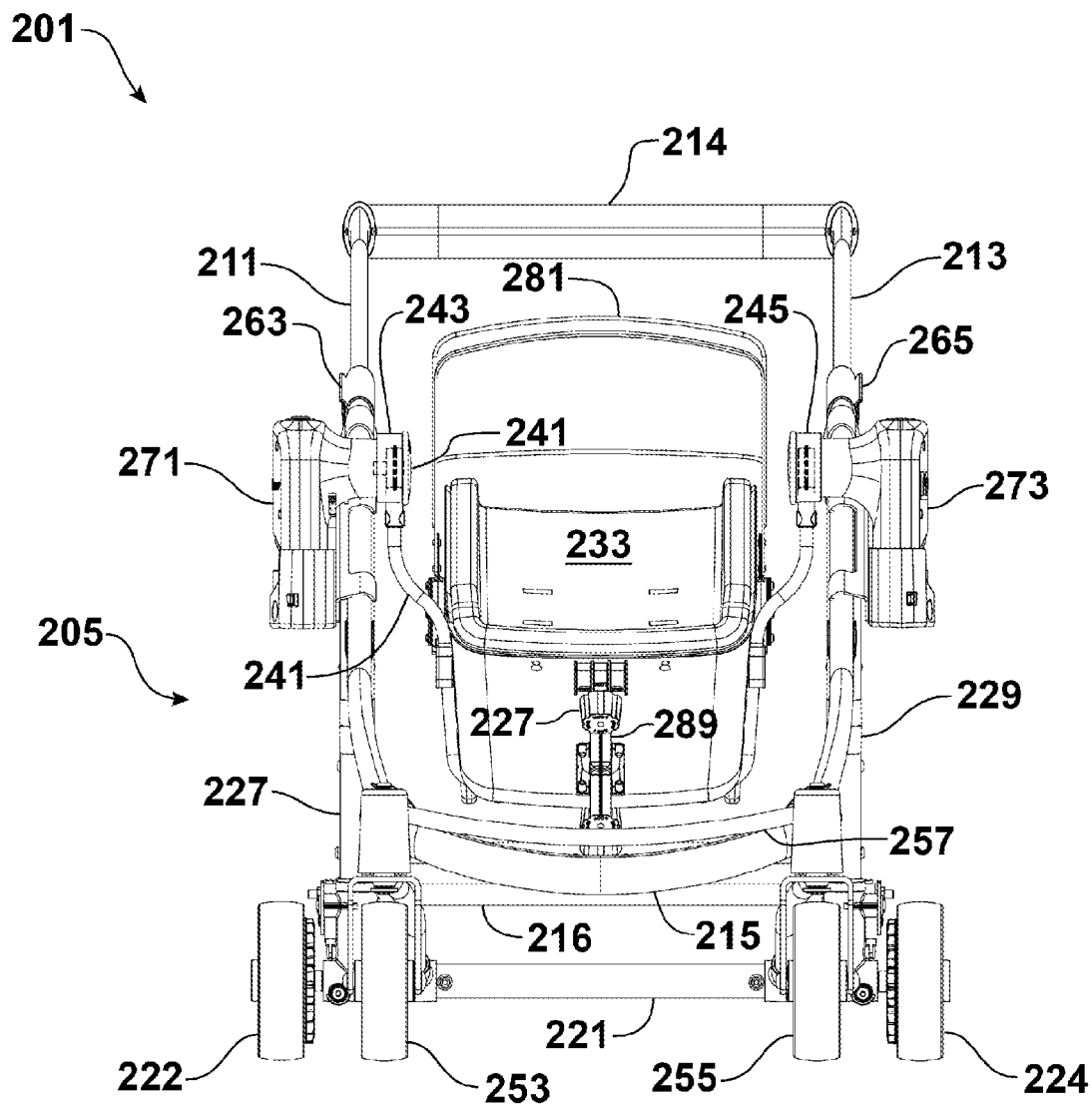


FIG. 6

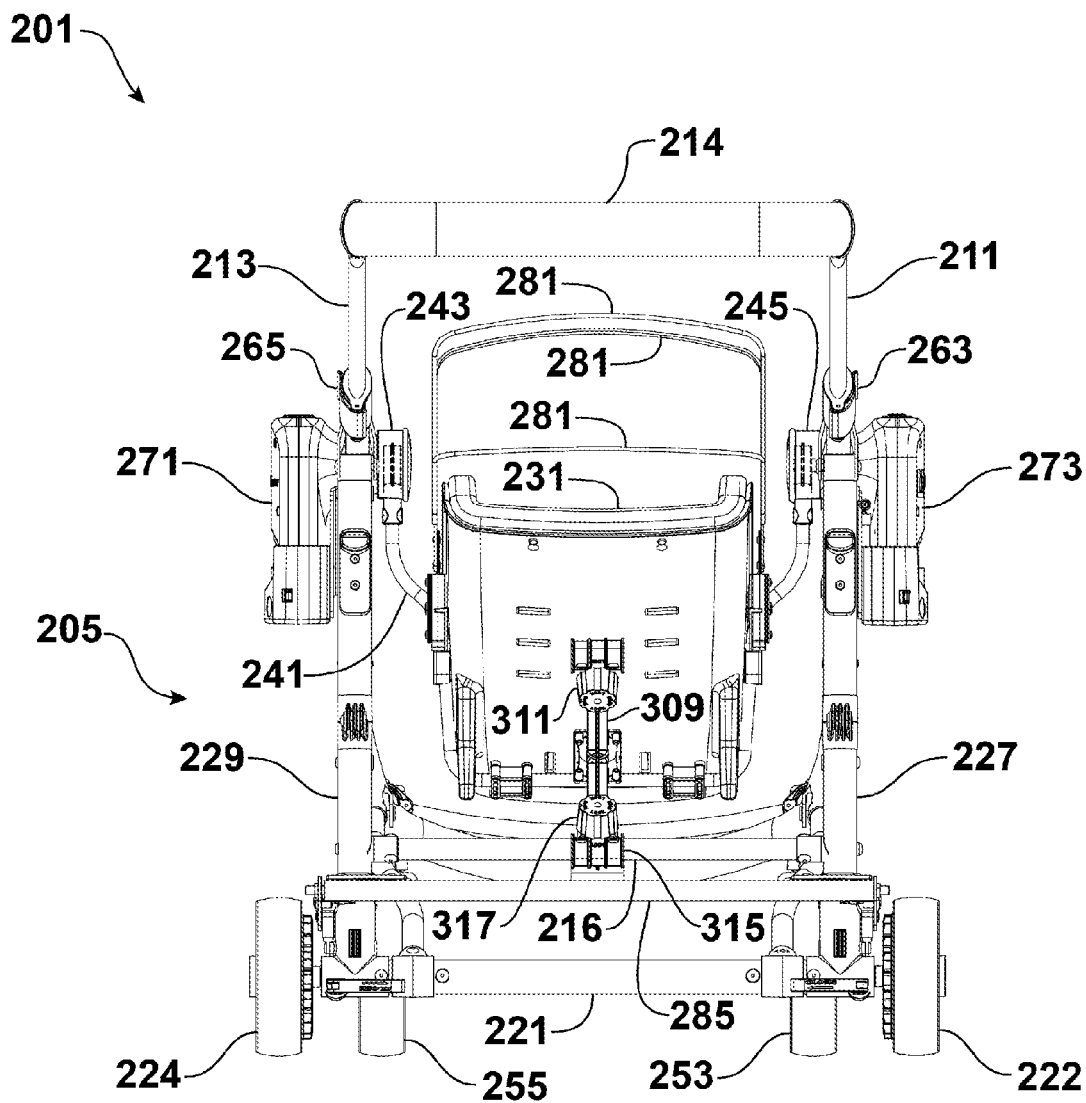


FIG. 7

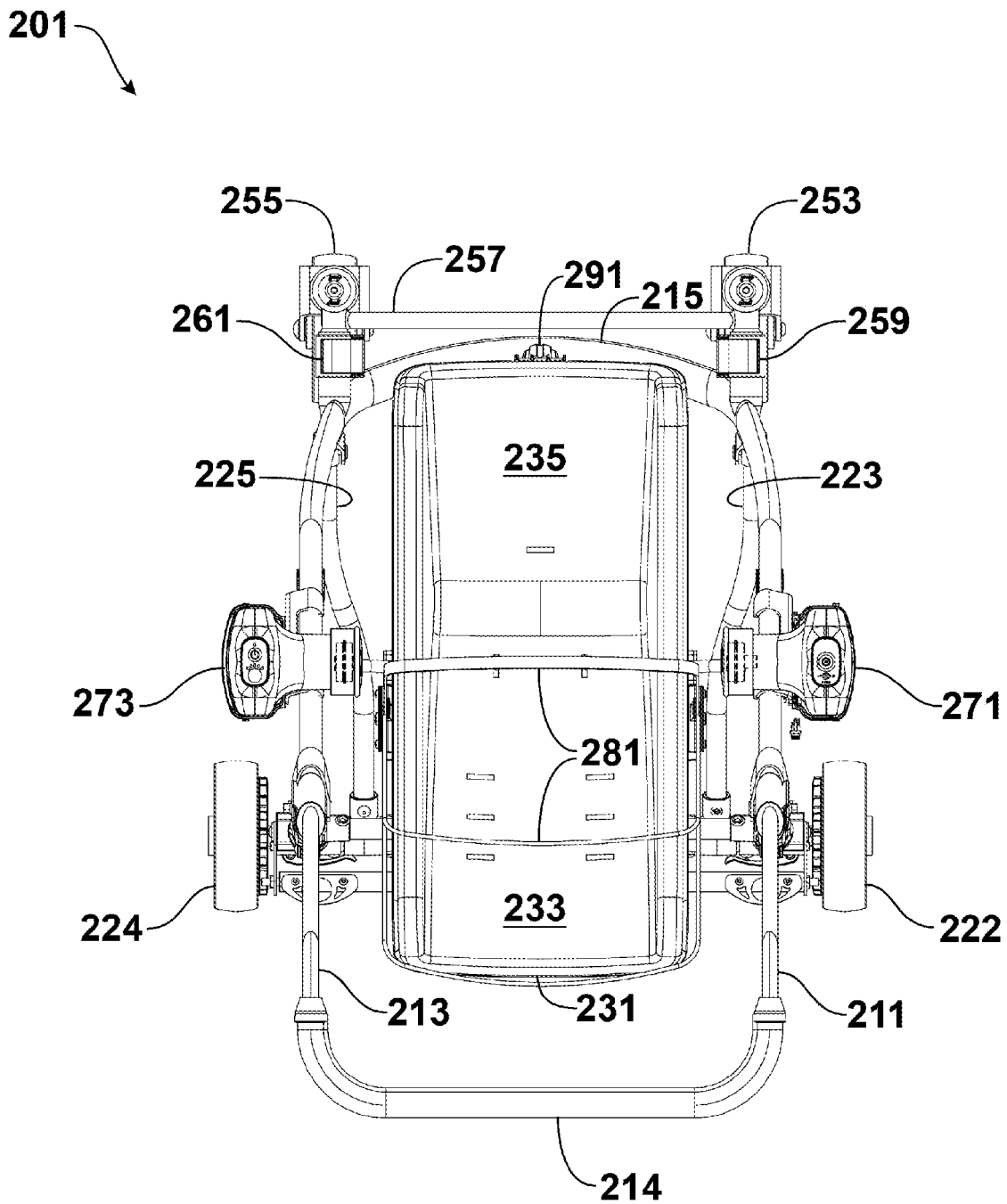


FIG. 8

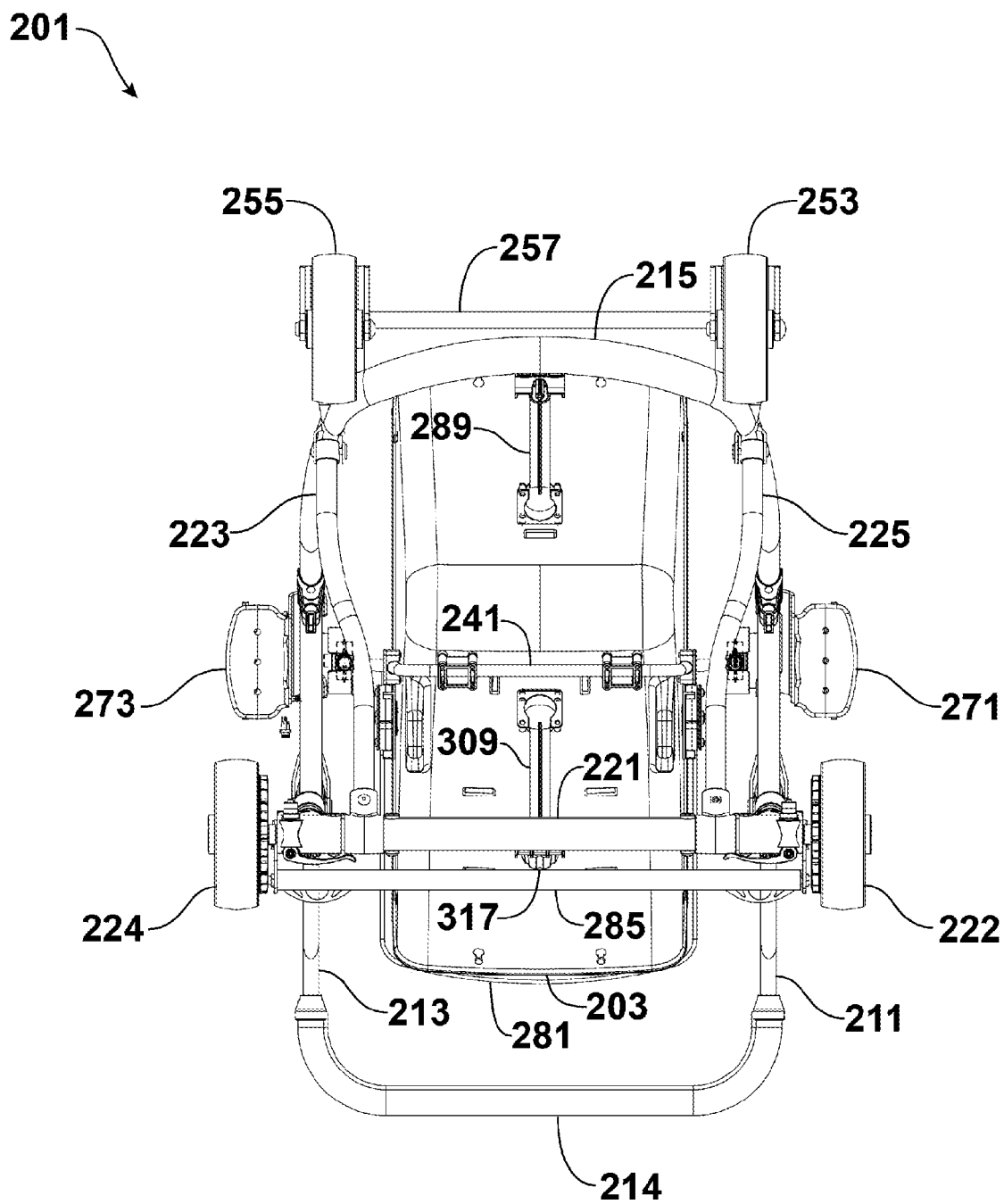


FIG. 9

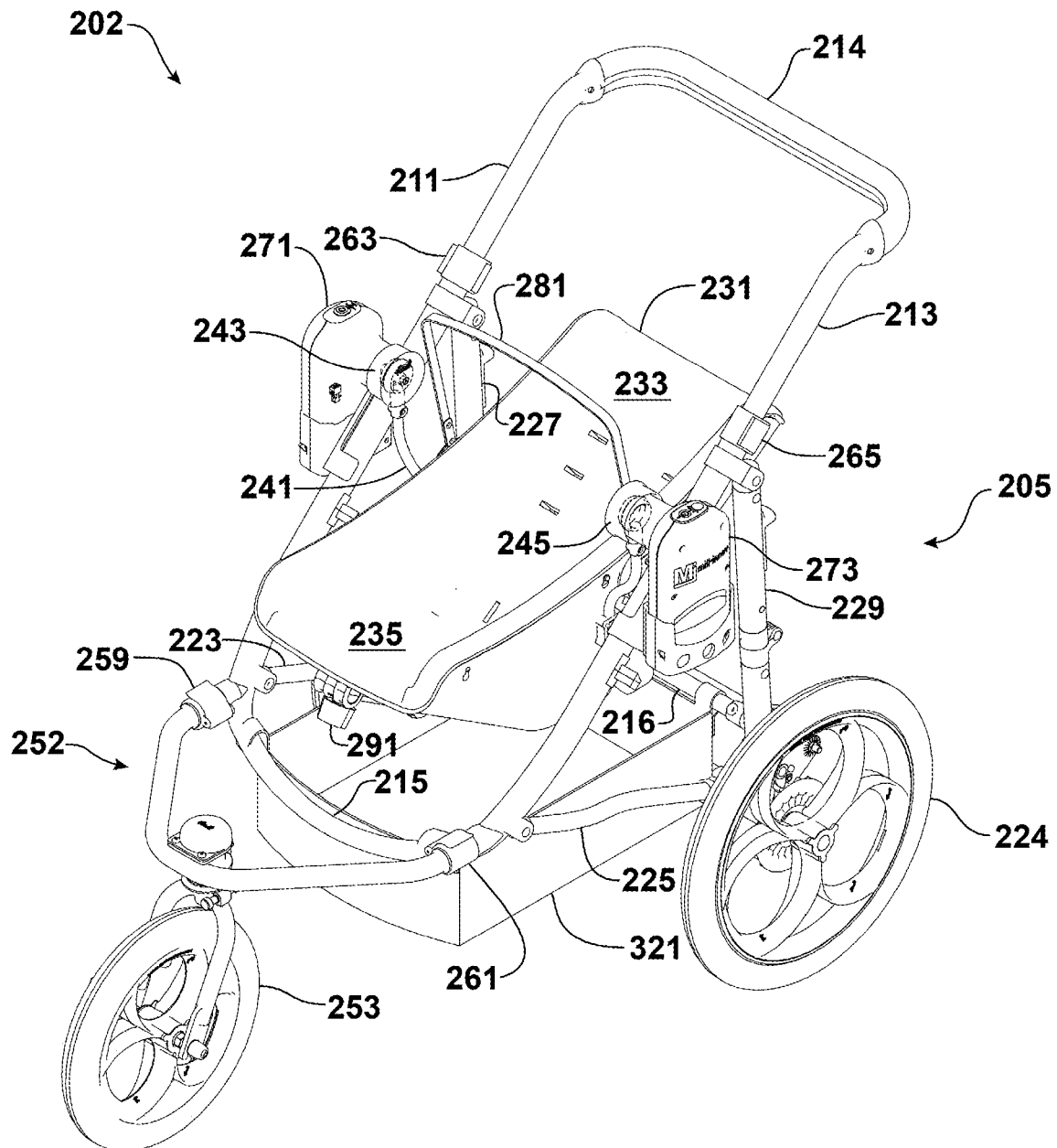


FIG. 10

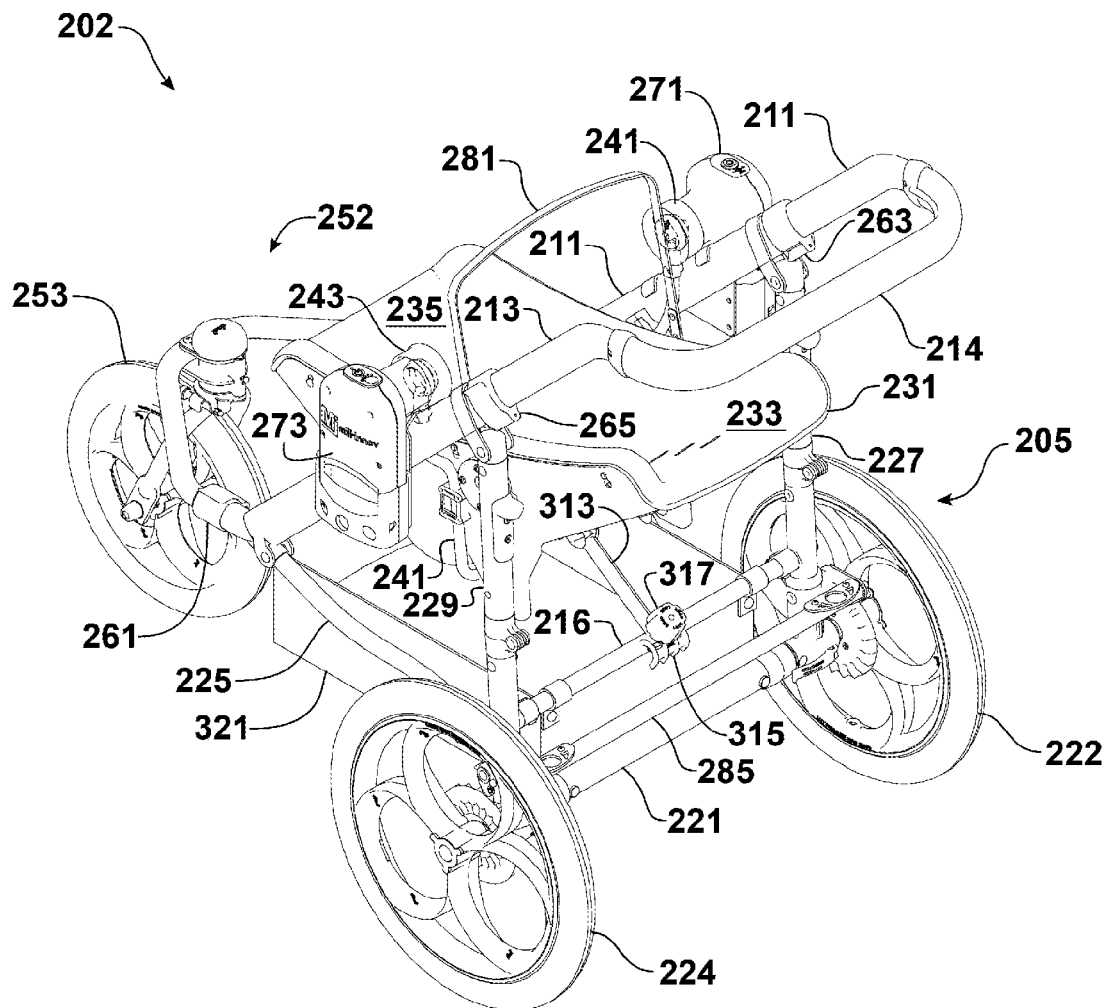


FIG. 11

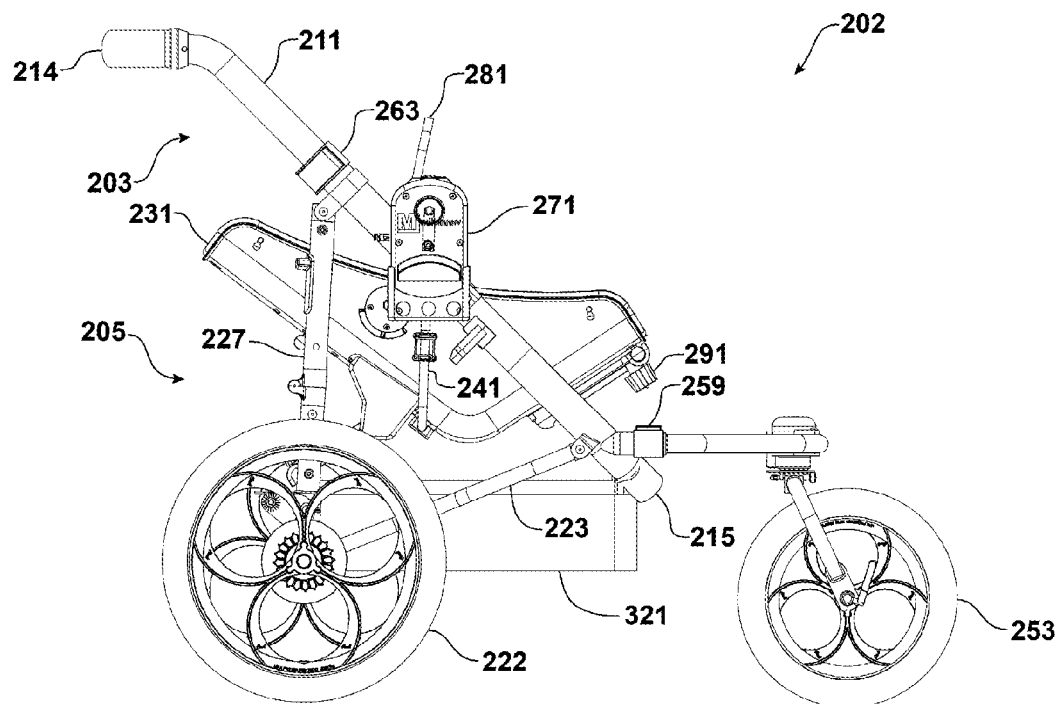


FIG. 12

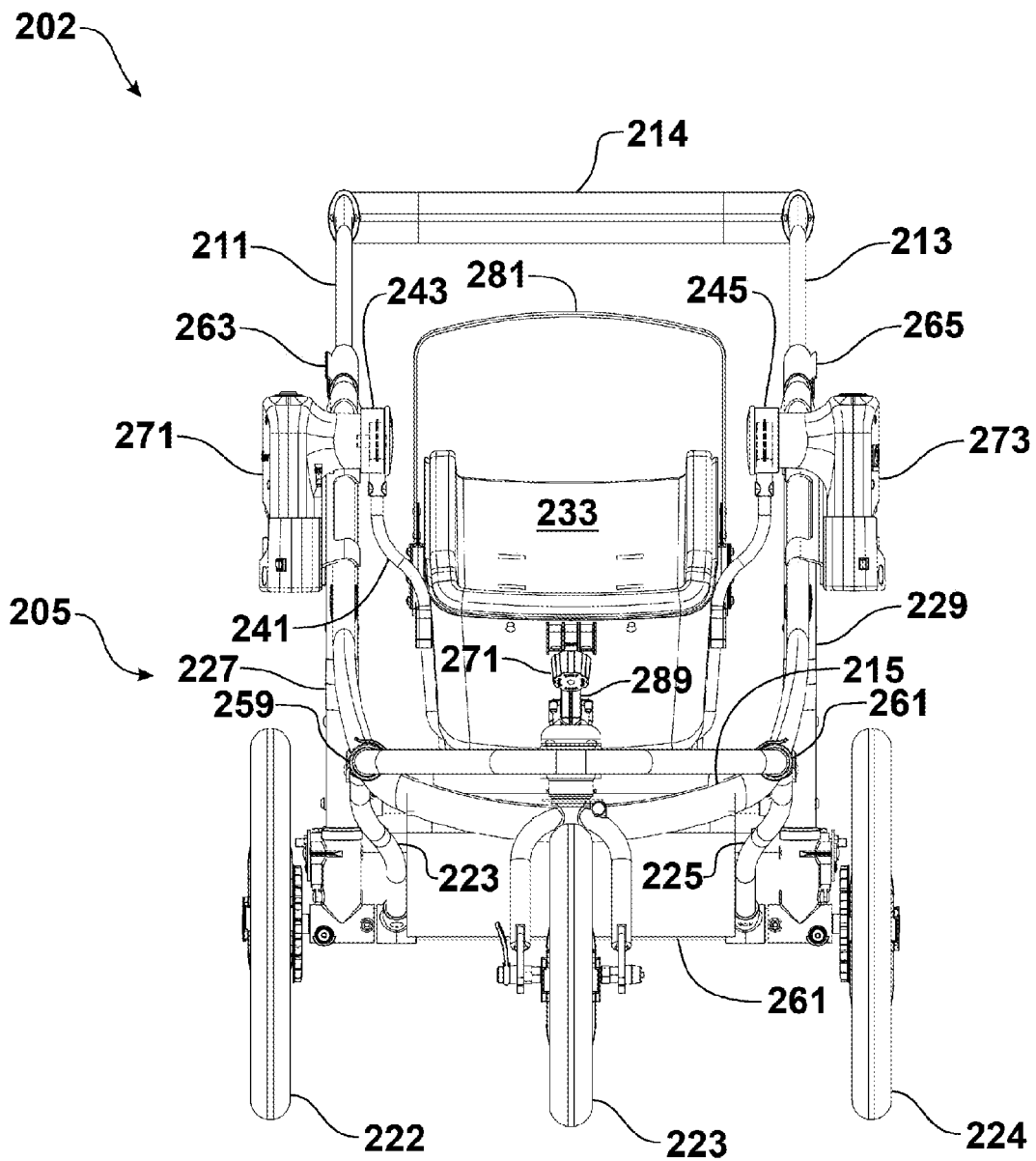


FIG. 13

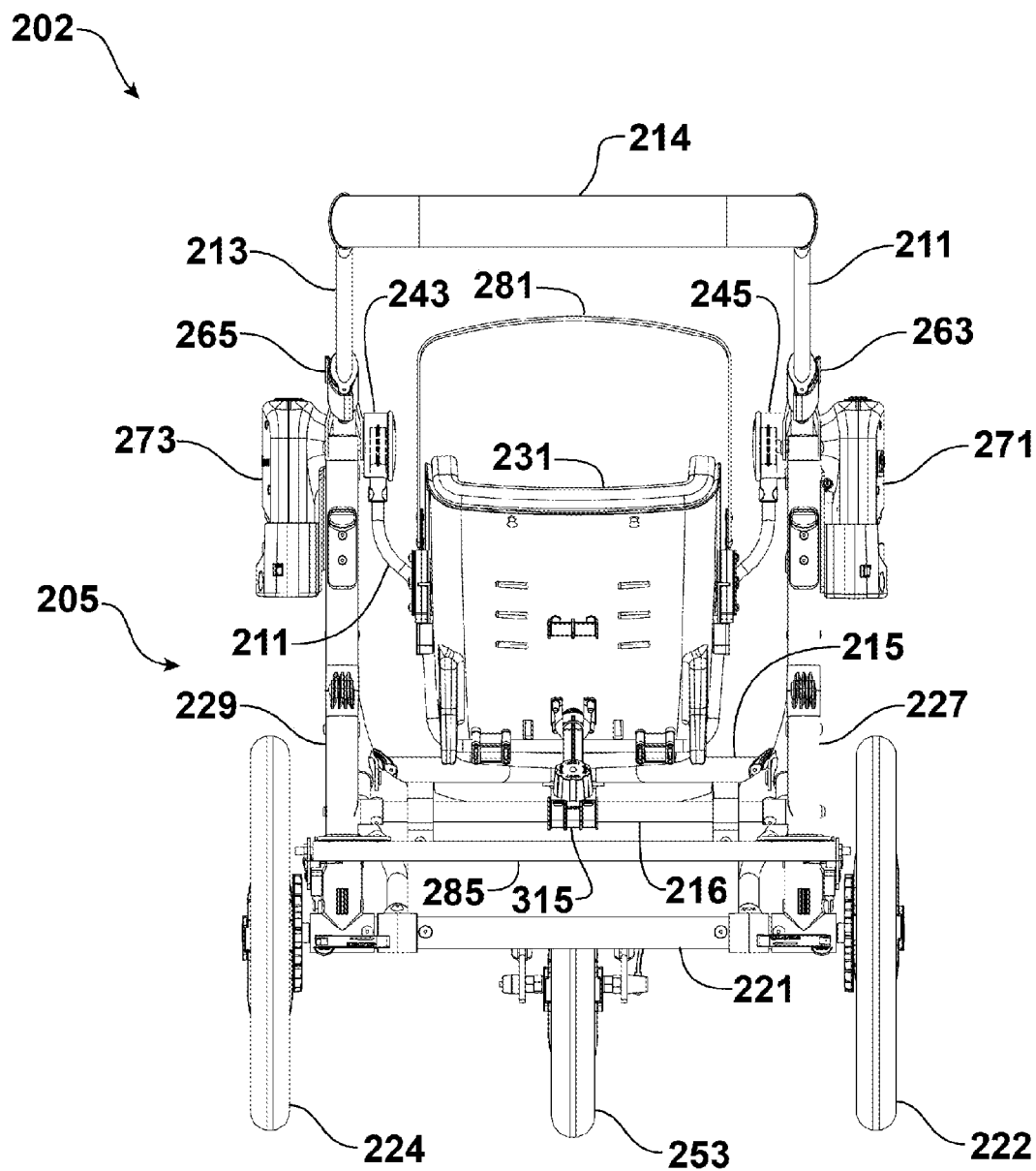


FIG. 14

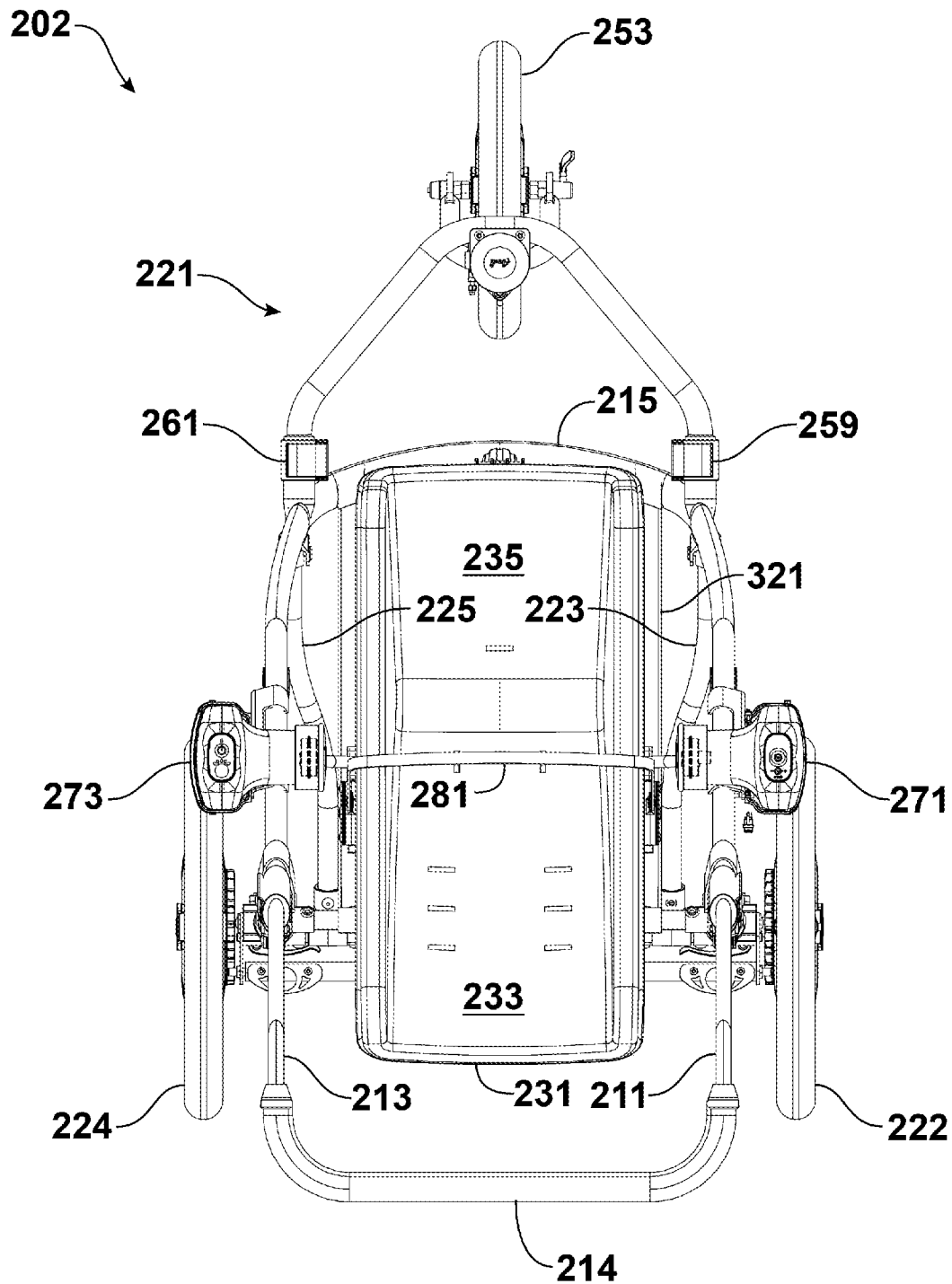


FIG. 15

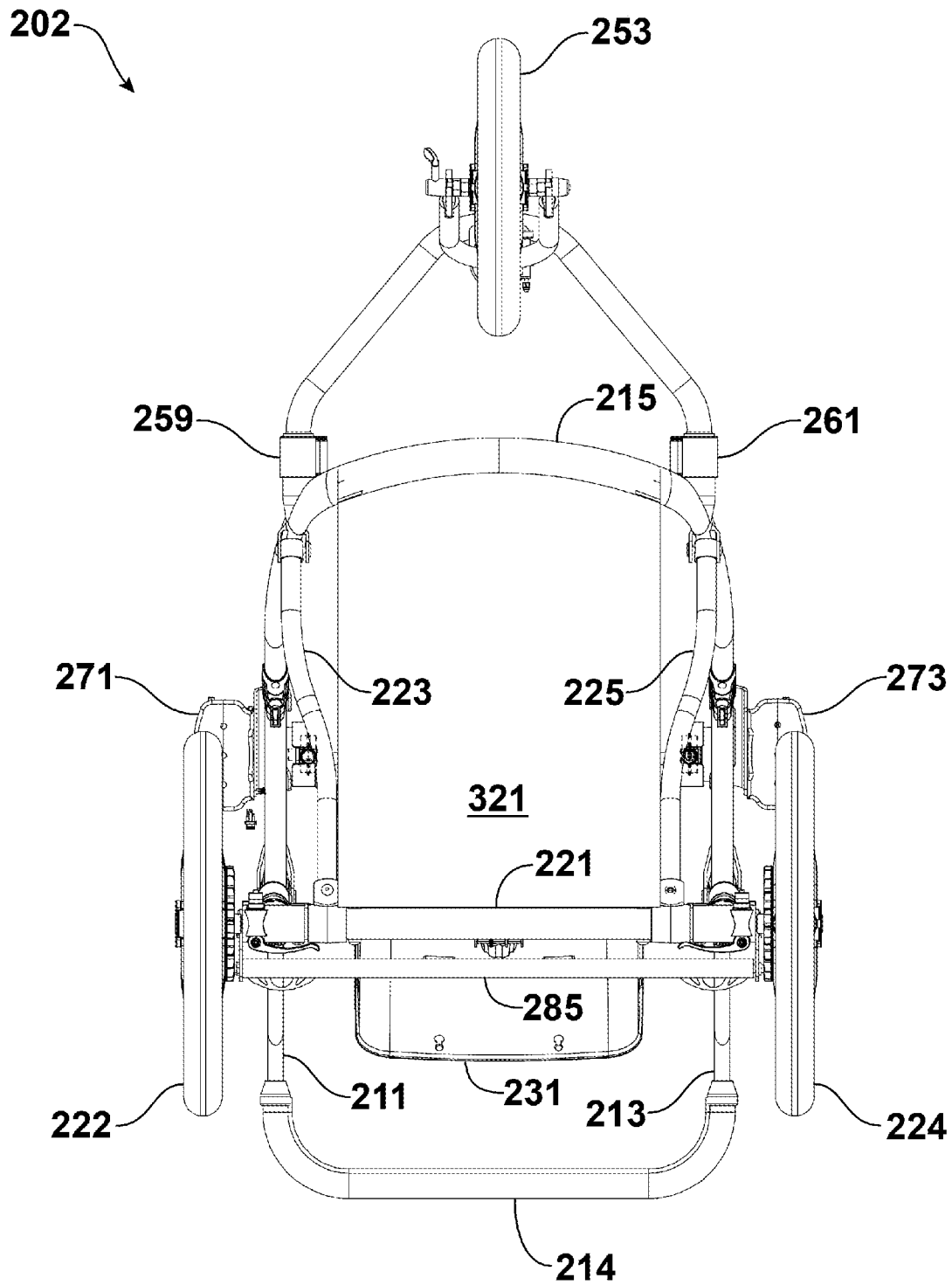


FIG. 16

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**INFANT STROLLER AND SWING
COMBINATION****CROSS-REFERENCE TO RELATED
APPLICATIONS**

This application is a continuation-in-part application of U.S. application Ser. No. 13/901,066, filed May 23, 2013, having the same title, and the same inventor, and which is incorporated herein by reference in its entirety; which application claims the benefit of priority from U.S. Application No. 61/659,275, filed Jun. 13, 2012, having the same title, and the same inventor, and which is incorporated herein in by reference in its entirety.

FIELD OF THE DISCLOSURE

The present disclosure relates generally to infant strollers, and more particularly to infant strollers that are also adapted to function as a swing.

BACKGROUND OF THE DISCLOSURE

Baby carriages or strollers are well known and have a long history in modern society. Indeed, the first stroller was invented in 1733 by the English architect William Kent for use by the children of the 3rd Duke of Devonshire. Over the years, various improvements have been made to these devices. Many of these improvements have been concerned with making these devices more functional, durable, lighter, easier to manufacture, or easier to transport.

U.S. Pat. No. 6,250,654 (Willis) discloses an example of a more recent stroller. The device depicted therein is a car seat/stroller assembly with a frame that pivotally accepts an infant car seat. Once the car seat is positioned in the frame, it can rock freely in a back-and-forth motion. Other examples or strollers which have a similar functionality may be found in U.S. Pat. No. 706,448 (Pender), U.S. Pat. No. 1,480,451 (Koch), U.S. Pat. No. 1,508,500 (Bingen et al.), U.S. Pat. No. 3,564,626 (Nelson), U.S. Pat. No. 5,099,528 (Wadman), U.S. Pat. No. 5,987,665 (Simantob et al.), U.S. Pat. No. 6,250,654 (Willis), U.S. Pat. No. 7,037,205 (Bowman), U.S. Pat. No. 7,100,724 (Haigh), U.S. Pat. No. 7,497,461 (Emerson), and U.S. Pat. No. 156,390 (Wenpetren).

BRIEF DESCRIPTION OF THE DRAWINGS

FIGS. 1-2 are illustrations of a prior art stroller.

FIGS. 3-9 are illustrations of a first embodiment of a stroller in accordance with the teachings herein.

FIGS. 10-16 are illustrations of a second embodiment of a stroller in accordance with the teachings herein.

SUMMARY OF THE DISCLOSURE

In one aspect, a stroller is provided which comprises (a) a chassis having first and second opposing frame elements, wherein said chassis is supported on a plurality of wheels; (b) a seat suspended from said chassis by way of a support element, wherein said seat includes upper and lower portions and is adapted to accommodate a child such that the back of the child rests against the upper portion and such that the legs of the child rest against the lower portion, wherein said support element has first and second ends which are rotatably attached to first and second pivots mounted, respectively, on said first and second frame elements, wherein said first pivot rotates about a first axis, and wherein said seat is disposed

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between said first axis and said plurality of wheels; and (c) a first motor which rotates said first pivot.

DETAILED DESCRIPTION

While the devices disclosed in the prior art may be suitable for their intended purposes, these devices also suffer from various infirmities. In particular, many of these devices require manual operation, and hence are not well suited to hands-free operation by the caregiver of an infant. Other devices of this type are constructed as rocker/stroller combinations whose operation depends on the surface the device is positioned on. Still others are unduly complicated and difficult or expensive to manufacture. Furthermore, some devices, such as the device depicted in U.S. Pat. No. 6,250,654 (Willis), have an axis of rotation that is at or below the body of the infant. Such a disposition of the axis of rotation produces a rocking motion, rather than a swinging motion, that may be less conducive to relaxation for some infants.

It has now been found that the foregoing infirmities may be overcome with a stroller of the type disclosed herein. In a preferred embodiment, this stroller has a seat which swings about an axis of rotation which is disposed above the body of the infant. This axis of rotation preferably extends above the top of, and parallel to the back of, the stroller seat. Unlike the device of U.S. Pat. No. 6,250,654 (Willis), in which the axis of rotation is disposed at or below the body of the infant and hence produces a rocking motion, this disposition of the axis of rotation produces a swinging motion which is deemed more suitable to relaxation for some infants. It will be appreciated that this design allows the swinging motion of the seat to be decoupled from the nature of the surface the device is positioned upon. Moreover, this construction provides a stroller that provides a swinging motion and that is amenable to an uncomplicated design which may be operated easily and manufactured inexpensively.

FIGS. 3-9 show a particular, non-limiting embodiment of a stroller in accordance with the teachings herein. As seen therein, the stroller **201** includes an upper frame **203** and a lower frame **205**. The upper frame **203** includes first **211** and second **213** struts which are joined at the first ends thereof by way of a handle **214**, and which are joined at the second ends thereof by way of an arcuate cross-element **215**. The lower frame **205** includes a rear axle **221**, first **223** and second **225** serpentine struts, and first **227** and second **229** vertical struts. The first **223** and second **225** serpentine struts are adjoined at first ends thereof to the rear axle **221**, and are adjoined at second ends thereof to the first **211** and second **213** struts of the upper frame **203**, respectively, at a lower portion thereof. The first **227** and second **229** vertical struts are adjoined at first ends thereof to the rear axle **221**. The first **227** and second **229** vertical struts are adjoined at second ends thereof to the first **211** and second **213** struts of the upper frame **203**, respectively, at an upper portion thereof. The first **227** and second **229** vertical struts are adjoined at an intermediate portion by a rear cross element **230**. The rear axle **221** has first **222** and second **224** rear wheels rotatably attached thereto.

The stroller **201** further includes a seat **231** having an upper portion **233** and a lower portion **235**. The seat **231** is mounted on the upper frame **203** by way of a support element **241** that extends underneath the seat **231** and engages first **243** and second **245** pivots that are disposed, respectively, on the first **211** and second **213** struts of the upper frame **203**.

The stroller **201** is further equipped with a front wheel assembly **251** comprising a first front wheel **253** and a second front wheel **255** which are adjoined by a lateral strut **257**. The front wheel assembly **251** is releasably attached to the upper

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frame **203** by way of first **259** and second **261** snap-activated couplers, which allows the front wheel assembly **251** to be readily swapped out for other wheel assemblies. Similarly, the handle **214** is attached to the first **211** and second **213** struts of the upper frame **203** by third **263** and fourth **265** snap-activated couplers, respectively, which allow the handle **214** to be readily swapped out for other handles. The first **259**, second **261**, third **263** and fourth **265** snap-activated couplers also facilitate at least partial disassembly of the stroller **201** for storage purposes.

The particular embodiment depicted in FIGS. 3-9 includes first **271** and second **273** motors which are mounted, respectively, on the first **211** and second **213** struts of the upper frame **203**. The first **271** and second **273** motors drive the first **243** and second **245** pivots, thus imparting a swinging motion to the seat **231**. In some embodiments, only a single motor **251** may be utilized to drive one of the first **243** and second **245** pivots for this purpose. Either or both of the first **271** and second **273** motors may be equipped with a suitable control interface to control the operation thereof. The control interface may comprise one or more panels, displays and/or keypads, and may be equipped with suitable logic, in the form of software or hardware, so that it is programmable and/or capable of implementing various modes of operation. For example, the control interface may be adapted to swing the seat **231** in a slow, rhythmic manner so as to induce sleep, or with gradually reducing or increasing frequency.

The upper frame **203** is further equipped with canopy support elements **281** to support a canopy (not shown) over the seat **231**. The canopy support elements **281** may be adjustable, thus allowing the canopy to be manipulated into a more open or closed configuration. Various clips, bands, or other provisions may be utilized to secure the canopy to the canopy support elements **281**.

A foot brake **283** is positioned on the rear of the stroller **201**, where it may be readily operated by someone pushing the stroller. In the particular embodiment depicted, the brake includes a horizontal bar **285** that may be pressed downward to engage the brake, thus maintaining the stroller **201** in a stationary position. The horizontal bar **285** may also be utilized to release the brake. In some embodiments, this may be achieved by double pressing the horizontal bar **285**, or by lifting the horizontal bar **285** upward.

The stroller **201** is further equipped with adjustable front **287** and rear **289** seat locking mechanisms, which provide the user with the ability to lock the seat **231** in place, and/or to limit the amplitude of the swinging motion towards the front or rear of the stroller. The front **287** seat locking mechanism comprises a first track **289** which is adjustably attached to an exterior surface of the lower portion **235** of the seat **231** by way of a first rotatable knob **291**. The front seat locking mechanism **287** further comprises a second track **293** having a clasp **295** attached thereto which releasably engages the arcuate cross-element **215**, and whose position along the length of the second track **293** is adjustable by way of a second rotatable knob **297**. Similarly, the rear seat locking mechanism **307** comprises a third track **309** which is adjustably attached to an exterior surface of the upper portion **233** of the seat **231** by way of a third rotatable knob **311**. The rear seat locking mechanism **307** further comprises a fourth track **313** having a clasp **315** attached thereto which releasably engages the arcuate cross-element **215**, and whose position along the length of the fourth track **313** is adjustable by way of a fourth rotatable knob **317**.

FIGS. 10-16 illustrate a second particular, non-limiting embodiment of a stroller in accordance with the teachings herein. The stroller **202** depicted is similar in most respects to

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the first embodiment, but has a three-wheel configuration consisting of first **222** and second **224** rear wheels and a single front wheel **253**. Such a wheel configuration may be more conducive to use in conjunction with certain activities, such as jogging. The wheels **222**, **224** and **253** on the stroller **202** in this embodiment are preferably larger in diameter than the stroller **201** of the first embodiment, and are preferably mounted via quick disconnect levers and/or push pins. In an especially preferred embodiment, the quick disconnect levers and/or push pins are pressure activated by pressing on the wheel hubs or a portion thereof.

The stroller **201** of the first embodiment and the stroller **202** of the second embodiment have numerous advantages. For example, the configurations of the first **211** and second **213** support elements allow the seat **203** to be readily removed from the chassis and reattached in the opposite orientation (e.g., facing backwards instead of forwards).

The stroller of FIGS. 10-16 is further equipped with a storage compartment **321**, which may be made out of a mesh, cloth or other suitable materials. Two corners of the storage compartment **321** are attached to the arcuate cross element **215**, and two corners are attached to the rear cross element **230**.

Several variations and modifications are possible to the foregoing embodiments. For example, the seat may be replaced with a larger (preferably non-swingable) seat that attaches to the existing chassis. This feature allows the stroller to be modified to accommodate a larger child so that the stroller does not have to be replaced as the child grows.

In addition, in some embodiments, the strollers disclosed herein may be further equipped with one or more trays. Such trays may be provided with a series of indentations adapted to hold beverages (e.g., bottles) or other such items, and may depend from the upper frame by way of one or more connectors. In some embodiments, the connectors may be rotatably connected to the upper frame in such a way that the tray is maintained in a horizontal position by gravity independently of the orientation of the stroller.

Moreover, in some embodiments, the motor(s) may be battery powered. In such embodiments, a gearing mechanism may be provided which is activated by the motion of the stroller wheels, and which recharges the batteries which power the motor. This feature allows the batteries to be recharged through normal use of the stroller.

The above description of the present invention is illustrative, and is not intended to be limiting. It will thus be appreciated that various additions, substitutions and modifications may be made to the above described embodiments without departing from the scope of the present invention. Accordingly, the scope of the present invention should be construed in reference to the appended claims.

What is claimed is:

1. A stroller, comprising:

a chassis having first and second opposing frame elements, wherein said chassis is supported on a plurality of wheels;

a seat suspended from said chassis by way of a support element, wherein said seat includes upper and lower portions and is adapted to accommodate a child such that the back of the child rests against the upper portion and such that the legs of the child rest against the lower portion, wherein said support element has first and second ends which are rotatably attached to first and second pivots mounted, respectively, on said first and second frame elements, wherein said first pivot rotates about a first axis, and wherein said seat is disposed between said first axis and said plurality of wheels; and

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a first motor which rotates said first pivot;
wherein said support element includes first and second
opposing portions which are connected by a third portion,
wherein said first and second portions are attached to said first
and second pivots, respectively, and wherein said third por-
tion extends underneath said seat.

2. The stroller of claim 1, wherein said support element
extends under said seat.

3. The stroller of claim 1, wherein said seat has first and
second opposing major surfaces, wherein said first major
surface includes said upper and lower portions, and wherein
said support element is mounted on said second major sur-
face.

4. The stroller of claim 1, wherein said first and second
pivots rotate about a common axis.

5. The stroller of claim 1, wherein said second pivot rotates
about a second axis, and wherein said second axis is parallel
to said first axis.

6. The stroller of claim 1, wherein said seat is disposed
between said plurality of wheels and a plane containing said
first axis.

7. The stroller of claim 1, wherein said support element is
U-shaped.

8. The stroller of claim 1, wherein said support element
includes first and second arcuate portions.

9. The stroller of claim 1, wherein said support element
extends under the middle of said seat.

10. The stroller of claim 1, further comprising a second
motor, wherein said first and second motors are mounted,
respectively, on first and second opposing frame elements.

11. The stroller of claim 1, further comprising a handle
attached to a first end of said first and second frame elements.

12. The stroller of claim 10, further comprising a first axle
having first and second joints disposed on first and second
ends thereof, wherein a second end of said first frame element
is attached to said first joint, and wherein a second end of said
second frame element is attached to said second joint.

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13. The stroller of claim 12, wherein said plurality of
wheels includes first and second wheels which are attached,
respectively, to first and second joints.

14. The stroller of claim 13, wherein said first and second
wheels include wheel locks.

15. The stroller of claim 1, further comprising a second
axle having third and fourth wheels disposed, respectively, on
first and second ends thereof.

16. The stroller of claim 15, further comprising a first strut
having a first end which is attached to said first frame element,
and having a second end which is attached to said second axle.

17. The stroller of claim 16, further comprising a second
strut having a first end which is attached to said second frame
element, and having a second end which is attached to said
second axle.

18. The stroller of claim 15, further comprising:

a first crossbar having a first end which is attached to said
first frame element, wherein said first crossbar has a
second end which is attached to said first strut; and

a second crossbar having a first end which is attached to
said second frame element, wherein said second cross-
bar has a second end which is attached to said second
strut.

19. The stroller of claim 1, wherein said stroller is trans-
formable between a first state and a second state, wherein said
second state is in a more compact arrangement in said second
state as compared to said first state, and further comprising a
spring activated lock disposed on said first frame element
which locks the stroller in said first state, and wherein said
lock further includes a button which may be pressed to dis-
engage the lock, thus allowing said stroller to be placed in said
second state.

20. The stroller of claim 1, wherein said seat moves in a
swinging motion when said first motor is activated.

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